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SN 1991T and the Value of  $H_0$  Gibson & Stetson

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Supernova 1991T and the Value of the Hubble Constant

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abstract

Based upon multi-epoch *Hubble Space Telescope* observations, we present the discovery of sixteen high-quality Cepheid candidates in NGC 4527. Corrected for metallicity effects in the Cepheid period-luminosity relation, we derive a distance, including both random (r) and systematic (s) uncertainties, of  $13.0 \pm 0.5(r) \pm 1.2(s)$  Mpc. Our result is then used to provide a calibration of the peak B-, V-, and I-band luminosities of the peak-luminosity correlation; the corrected peak luminosity is indistinguishable from those of so-called "normal" Type Ia SNe.